VELUX®

GGL/GGU INTEGRA®
GGL/GGU Solar
CVP
KMX 100 / KMX 200 / KSX 100 / KLR 100

Directions for use

ENGLISH

io homecontrol®

VAS 451452 - 1207

Congratulations on your new VELUX product

In order to make the best use of your product please read these instructions on operation and maintenance.

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Please keep instructions for future reference and hand them over to any new user.

Safety

- Before operating ensure that the window with electrical products can be and is operated without risk of damage to property or injury to people or animals.
- For personal safety, never have your hand or body out of the window without first having switched off the mains or battery supply.
- Children must not be allowed to play with the window and its electrical products, and the remote control should be kept out of reach of children.
- If repair or adjustment work is needed, disconnect from mains or battery supply and ensure that it cannot be reconnected unintentionally.
- The cable plug on products to be connected to mains supply is for indoor use only.
- It is recommended to place a remote control in the room where the window and its electrical products have been installed.

Function

- If the rain sensor gets wet, the window operator automatically closes the window; however, the ventilation flap remains open.
  Note: GGL/GGU INTEGRA, KMX and CVP are supplied with rain sensor.
- Disabling the rain sensor while the window is open implies a risk of water ingress.
- To prevent the window from closing because of very fine/weak rain, fog or dew, the rain sensor is equipped with a heating element to keep the surface dry.
- If the window has been opened manually, the window operator will not be activated via the rain sensor.
- From fully open, it will take up to one minute from the time of activation before the window is completely closed. Therefore, in case of sudden rain, water may enter the room before the window is closed.
- In case of snow and/or ice, the operation of the window may be blocked.

Product

- This product has been designed for use with genuine VELUX products. Connection to other products may cause damage or malfunction.
- The product is compatible with products with the io-homecontrol® logo.
- Electrical products must be disposed of in conformity with national regulations for electronic waste and not with usual household waste.
- Used batteries have to be disposed of in conformity with the relevant environmental regulations.
- Expected battery lifetime of the remote control: Approx 1 year.
- Expected battery lifetime of the solar window operator: Approx 10 years.
- The packaging can be disposed of with usual household waste.
- Radio frequency band: 868 MHz.
- Radio frequency range: 300 m free field. Depending on building construction, the indoor range is approx 30 m. However, constructions with reinforced concrete, metal ceilings and plaster walls with steel members may reduce the range.
- Noise level: Max 70 dB(A).

Maintenance and service

- Disconnect from mains or battery supply before carrying out any maintenance or service work to the window and products connected to it and ensure that it cannot be reconnected unintentionally during this time.
- Maintenance and installation must be carried out in consideration to Health and Safety at work requirements.
- If mains cable is damaged, it must be replaced by qualified personnel in accordance with national regulations.
- Spare parts are available through VELUX. Please provide information from the data plate.
- If you have any technical questions, please contact VELUX.

io homecontrol®

io-homecontrol® provides advanced and secure radio technology that is easy to install. io-homecontrol® labelled products communicate with each other, improving comfort, security and energy savings.

www.io-homecontrol.com

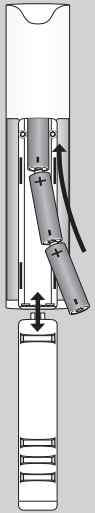
Products to be operated with the remote control must be registered. Registration, however, depends on whether the remote control is new or whether it is already used for operating other products.

1

- If the remote control is already in operation, proceed with section *Registering new products*.
- If the remote control is new, proceed as follows.

When the initial set-up has been completed, the registered products will appear in the display.

2 Slide off the remote control battery compartment cover as shown. Insert the three batteries supplied (type AA, 1.5 volt). Replace cover.

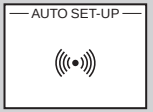


3 Choose language:
Press ▲▼ to highlight your language.
Press ■ "Enter" to confirm your choice.

4 Prepare products for registration.
Disconnect the mains or battery supply for 1 minute and then reconnect it. The products can now be registered in the remote control within the next 10 minutes.

5 Press ■ "Register" to start registration.

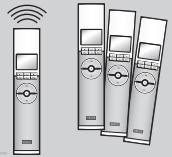
6 Registration is running. This can take up to two minutes.



7 The display shows "Completed" when all products have been registered.
Note: If the display shows "Failed", remove the batteries from the remote control. Prepare the products for registration, see section *Resetting and preparing for registration*. Repeat the initial set-up.

8 The display shows one of the registered products.
Press ▲▼ to see the other registered products.

For use of more than one remote control, all products must be registered in one of the remote controls, see section *Initial set-up*. Then the information must be copied from this remote control to the other remote controls, see section *Using additional activation controls*.



The display indicates which product is being operated, which menu function is being used etc. The top line of the display states the chosen area. Products are as default shown under the area House. The bottom line of the display states the function of the two selection keys.

Note: The display shows the last product operated.

Selection, navigation and **program keys**

Keys for operating the product chosen

Selection keys

The current function of the key is stated directly above in the display.

- for **activating** the menu and **confirming** the chosen menu function.

- for **locating** the Room, the Group, the Zone or the product to be operated.

Navigation keys

- for **scrolling** up and down in the product or menu list.
- for **scrolling** through the time intervals to set the remote control to close the window automatically.

Shortcut keys P1/P2

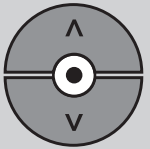
- for **activating** a program by pressing just one key.

Keys for operating a product or a Group of products

OPEN/UP/ON or CLOSE/DOWN/OFF

Short key pressure: Product will travel to maximum top or bottom position.
Long key pressure: Product will travel to pre-set position.

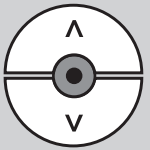
See section *Choosing positions and luminous intensity.*



Stop and **status key**

STOP/STATUS

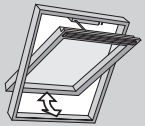
Short key pressure: The product in operation stops or the status is shown.
Long key pressure: All products in operation stop.



To be able to operate a product (eg a blind), you first have to locate the product in question in the display.

The examples show the easiest way to find the product you want to operate.

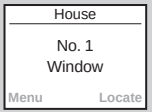
One window

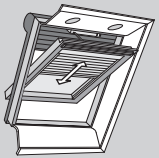


With one electrical product

The window is equipped with a window operator only and therefore you do not have to locate the product first.

Press to start operation.





With additional electrical products

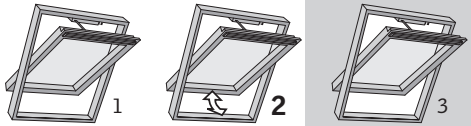
The window is equipped with a window operator, a roller shutter, a blind and frame lights.

The example shows how to locate and operate the blind.

Press to find "Blind".

Press to start operation.

More than one window



With one electrical product

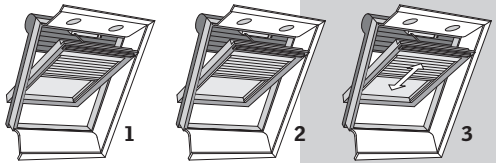
Three windows are equipped with window operators only.

The example shows how to locate and open window No. 2.

Press to find window No. 2.

Press to open the window.

More than one window



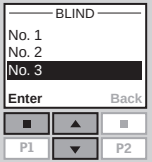
With additional electrical products

Three windows are each equipped with a window operator, a roller shutter, a blind and frame lights.

The example shows how to locate and operate blind No. 3.

1 Press ▪ "Locate".

2 Displays the list of product types within the area House.
Press ▲▼ to highlight "Blind".
Press ▪ "Enter".

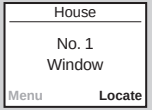


3 Press ▲▼ to highlight blind "No. 3".
Press ▪ "Enter".

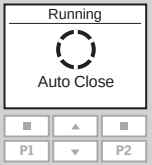
4 Press ◎ to start operation.

When a window has been opened with the remote control, you can set it to close again automatically after a certain time.
For instance you might want to air your house briefly when returning home from work. The possible settings are: Disabled, 5 min, 10 min, 15 min, 20 min, 30 min, 45 min and 60 min.

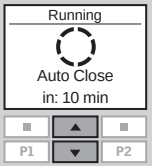
The example shows how to time window No. 1 to close after 10 minutes.



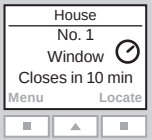
1 Locate window No. 1.
Press ◎ to open the window.



2 The display shows the icon ◌ and the text "Auto Close". Start item 3 within 5 seconds, otherwise the window will not close automatically.



3 Scroll via ▲▼ through the time options and choose "in: 10 min".



4 The display shows the icon ◷ and counts down until the window is closed.

If you close the window earlier than chosen, the function will be cancelled.

Note: Connected sunscreening products can be set to operate automatically via Programs.

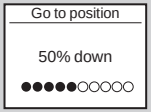
Choosing positions and luminous intensity

A **product** or a **Group of products** can be set to travel to a certain position.

The example shows how to set a roller shutter to close by 50%.

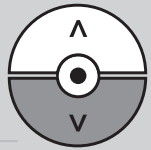
1 Locate the product in question, see section *Locating and operating a product*.

2 Product chosen is displayed. The example shows roller shutter No. 2.



3 Press and hold key and watch the display. Each black spot corresponds to the roller shutter closing in 10% increments. Five black spots thus correspond to it closing by 50%.

Release key and the roller shutter will travel to the position chosen.



Note: A short key pressure will make the roller shutter travel to maximum top or bottom position.

Frame lights can be operated on the same principle. The percentages correspond to luminous intensity.
Short key pressure: The lights are switched on or off completely.

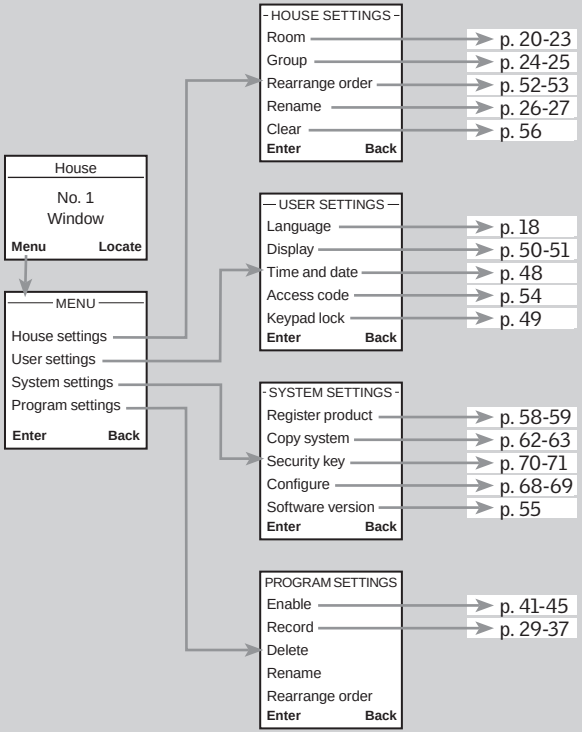
Some decoration and sunscreening products can be operated in two ways. For instance, a **Venetian blind** can be be drawn up and down and its slats can be tilted. Once the product has been located, choose Tilt ▲▼ or Turn ◀▮▶ with the navigation keys .

To obtain **ventilation** via the ventilation flap without opening the window, release key when "Ventilation" is displayed.

Menu guide

Guide to the menu functions of the remote control.

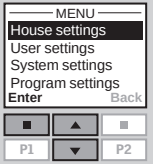
Additional information about the individual function is provided in the relevant section.



Navigating through the menus

The example shows how to find the menu item Room by means of menu choices.

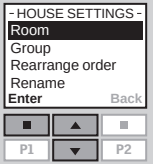
1 Press ▭ "Menu".



2 Displays a list of menu items under Menu.

Press ▲▼ to highlight "House settings".

Press ▭ "Enter" to confirm your choice.



3 Displays a list of menu items under House settings.

Press ▲▼ to highlight "Room".

Press ▭ "Enter" to confirm your choice.

You can now proceed with the menu functions under menu item Room.

This way of choosing menu items is shown as follows in the rest of the instructions:

1 Press ▭ "Menu".

2 Scroll through the menus:

House settings → Room

Changing language

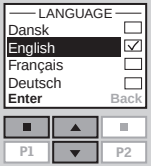
You can change the display text language.

The example shows how to change it into French.

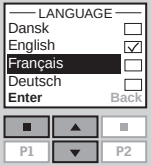
1 Press "Menu".

2 Scroll through the menus:

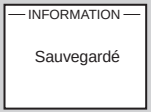
User settings → Language



3 The display shows a list of languages. The current language has been ticked.



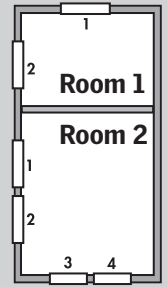
4 Press to highlight a new language.
Press "Enter" to confirm your choice.



5 The display shows that the change has been saved.

Room, Group and Zone

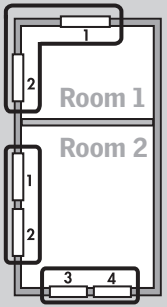
To make it easier to locate and operate the products it is recommended to link each product to a Room and/or a Group. Products are as default shown under the area House.



Definition of Room

A Room consists of one or more products of any type located in the same physical room, eg bedroom or kitchen.

A product can be assigned to one Room only.

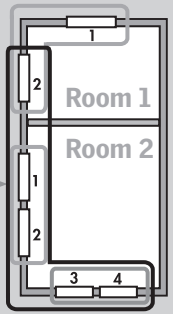


Definition of Group

A Group consists of at least two products of the same type (eg two roller shutters).

A Group "All" with all products of the same type is automatically created to make it easier to locate and operate products of the same type simultaneously.

Groups created across more Rooms are called Zones.

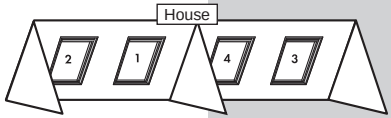


Definition of Zone

A Group created across more Rooms.
You can create a Zone consisting of for instance all roller shutters on the windows of the house facing west and south.

Rooms are created to make it easier to locate and operate your products.

The example shows two rooms with two windows in each. Below it is shown how to create Room 1 by moving the relevant products from House to Room 1.



1 Press "Menu".

2 Scroll through the menus:

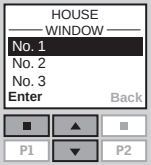
House settings → Room → Create

3 Displays the areas, here the area House.

Press to highlight the area with the product to be assigned to Room 1 first.
Press "Enter" to confirm your choice.

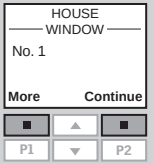
4 Displays a list of all products in House. The product type, in this case Window, appears in the display. The individual products can be identified by pressing for a short period of time. This will activate the product briefly.

Press to highlight the product to be moved to Room 1.
Press "Enter" to confirm your choice.



5 Displays the product chosen.

- Press "More" to move additional products to Room 1. You will return to the list in item 4. Repeat items 4-5 until the relevant products have been moved to Room 1.
- Press "Continue" to proceed.

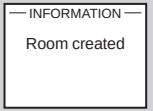


6 Displays a list of options.

Press to highlight "Save new Room".
Press "Enter" to confirm your choice.

Highlight one of the other options to undo your choice.

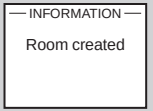
7 The display shows that a new Room has been created.



8 The display asks whether you want the remaining products to be assigned to the next Room automatically.

- Press "Yes" to save the remaining products in Room 2.
- Press "No" to return automatically to the list in item 3 and possibly create more Rooms.

Note: When creating Room 1, Room 2 will automatically be created.



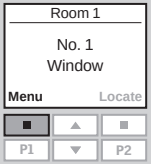
9 The display shows that a new Room has been created.

Note: The products are automatically renumbered when assigned to a Room.

Editing a Room

You can edit the Rooms you have created, ie one or more products can be moved from one Room to another.

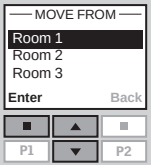
The example shows how the window operator in window No. 1 can be moved from Room 1 to Room 2.



1 Press ▭ "Menu".

2 Scroll through the menus:

House settings → Room → Edit



3 Displays a list of the Rooms created.

Press ▲▼ to highlight the Room from which the product is to be moved.

Press ▭ "Enter" to confirm your choice.

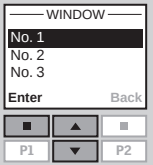
4 Displays a list of product types in the Room from which the product is to be moved.

Press ▲▼ to highlight "Window".
Press ▭ "Enter" to confirm your choice.

5 Displays a list of the individual products within the product type in question.

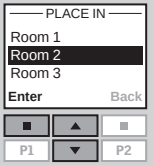
Press ▲▼ to highlight the product to be moved. The individual products can be identified by pressing ◉ for a short period of time. This will activate the product briefly.

Press ▭ "Enter" to confirm your choice.

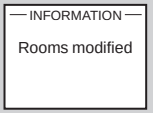


6 Displays a list of Rooms in which the product can be placed.

Press ▲▼ to highlight the Room in which the product is to be placed.
Press ▭ "Enter" to confirm the new location of the product.



7 The display shows that several Rooms have been modified.



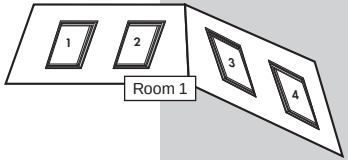
Groups are edited according to the same principle as Rooms.

Note: The products are automatically renumbered when assigned to a new Room.

Creating a Group

To make it easier to locate and operate products of the same type simultaneously, you can create a Group.

The example shows a room with four windows, each with a window operator. It is shown how to create Group 1 consisting of the window operators on the two windows No. 3 and No. 4. The example presumes that Room 1 has been created.



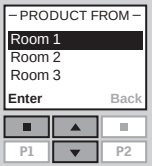
Note: A number of Groups "All" each consisting of all products of the same type in the Room in question was created automatically when Room 1 was created.

A Group created across more Rooms is shown in the display as a Zone.

1 Press ▭ "Menu".

2 Scroll through the menus:

House settings → Group → Create



3 Displays a list of the Rooms created.

Press ▲▼ to highlight the Room in which Group 1 is to be created.
Press ▭ "Enter" to confirm your choice.

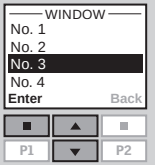
4 Displays a list of the product types in Room 1.

Press ▲▼ to highlight "Window".
Press ▭ "Enter" to confirm your choice.

5 Displays a list of the individual products within the product type in question.

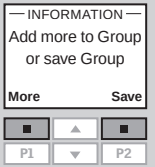
Press ▲▼ to highlight the product to be included in Group 1. The individual products can be identified by pressing ◉ for a short period of time. This will activate the product briefly.

Press ▭ "Enter" to confirm your choice.

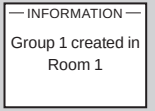


6 The display asks whether additional products are to be moved to Group 1.

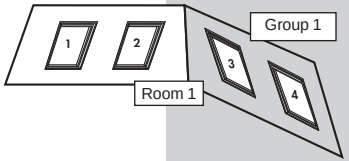
- Press ▭ "More" to move additional products to Group 1. You will return to the list in item 5. Repeat items 5-6 until these products have been moved to Group 1.
- Press ▭ "Save" to create Group 1.



7 The display shows that Group 1 has been created in Room 1.



Groups are edited according to the same principle as Rooms.



Note: When operating Groups a delayed execution of commands might occur. If you want a particular product to respond at once, this product must be operated individually.

You can change the names of House, Rooms, Zones, Groups, products and Programs displayed into more personal names.

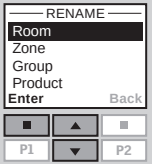
The example shows how to change Room 1 into Kitchen.

Note: When you have used the function Rename, the products are not automatically renumbered any longer.

1 Press ▭ "Menu".

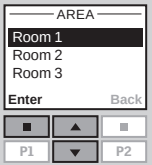
2 Scroll through the menus:

House settings → Rename



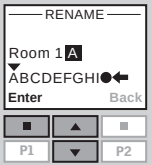
3 Displays a list of House, Rooms, Zones, Groups, products and Programs.

Press ▭ to highlight "Room".
Press ▭ "Enter" confirm your choice.



4 Displays a list of the names automatically given to the Rooms.

Press ▭ to highlight "Room 1".
Press ▭ "Enter" to confirm your choice.



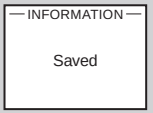
5 Displays a list of characters including the save function ●, the delete function ← and the space character ␣.

6 Enter the new name using the list of characters.

Press ▭ to highlight the character required.
Press ▭ "Enter" after each character.

7 Save the new name by choosing ● in the list when the last character has been entered.
Press ▭ "Enter".

8 The display shows that the new name has been saved.



A program contains a sequence of commands on how and when the products are to be operated.

There are three different program types:

- **My program**
  A personal program that will be activated automatically without using the remote control.
  For instance you can record a morning program to run up the roller shutters in the bedroom, open the windows and turn on the frame lights between 7 and 7.30 on weekdays from October to April.

- **Program under Shortcut P1/P2**
  A personal program that can be activated by using the shortcut keys.
  For instance you can record and save a program under shortcut key P1 to close all windows in the house and draw all blinds down by 50%.

- **Synergy program**
  A pre-defined program that will be enabled via the remote control and then run automatically.
  The synergy program Energy Balance controls the exterior sunscreening products and contributes to optimising the energy balance of the building. In this way, you save energy for the heating and cooling of the building.

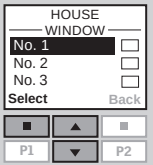
My program is an automatically activated program which contains a sequence of operating commands for one or more products. The sequence is automatically activated at a pre-set time within a period defined by a starting date and an end date.

The example shows how to program window No. 1 to open at 18.30 and close again at 22.00 each Monday for 12 months.

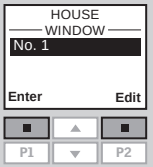
1 Press ▭ "Menu".

2 Scroll through the menus:
Program settings → Record → My program

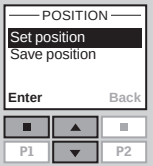
Note: If the current time and date has not been set already, please do so before choosing "My program".



3 Locate the window. The relevant product can be identified by pressing ⊙ for a short period of time. This will activate the product briefly.
Press ▭ "Select" to choose the product.

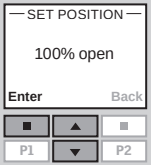


4 The display shows the selected product.
- Press ▭ "Enter" to confirm your choice.
- Press ▭ "Edit" to select additional products from the list.

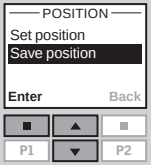


5 Press ▭ to highlight "Set position".
Press ▭ "Enter" to confirm your choice.

6 Press ▲▼ to set the opening position of the window.
100% corresponds to fully open.
Press ▭ "Enter" to confirm your setting.



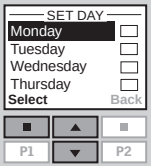
7 Press ▲▼ to highlight "Save position".
Press ▭ "Enter" to confirm your choice.



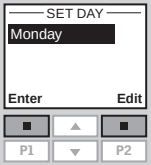
8 Press ▲▼ to set the time for the window to be opened.
First choose minutes.
Press ▭ "Enter" to change to hours.

9 Press ▲▼ to set hours.
Press ▭ "Enter" to confirm your setting.

10 Press ▲▼ to select the day of the week for the window to be opened.
Press ▭ "Select".



11 The display shows the chosen day of the week.
- Press ▭ "Enter" to confirm your choice.
- Press ▭ "Edit" to return to item 10 in case of additions or changes.

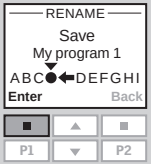


12 The display shows various options.
Press ▲▼ to highlight "Add functions" to set the closing position of the window plus the day and time for closing.
Press ▭ "Enter" to confirm your choice.

13 The display shows the latest selected product.
Press ▭ "Enter" to continue.
Repeat items 5-11, only this time applied to the closing settings.

14 The display shows various options.
- Press ▲▼ to highlight "Add functions" to add additional operating commands for the window or other products to the program.
  Press ▭ "Enter" to return to item 13.
- Press ▲▼ to highlight "Save program" to save the program as it is.
  Press ▭ "Enter" to save the program.

15 The display automatically suggests the name "My program 1".
Press ▭ "Enter" to save the name.
Follow the instructions in section *Naming* to change this name.

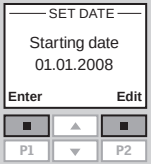


16 The display asks whether to enable the program or to keep it disabled.
Press ▲▼ to highlight "Enable".
Press ▭ "Enter" to confirm your choice.

Set starting and end date to enable the program.

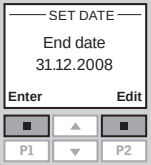
Starting date:

17 Press ▭ "Edit" to choose a starting date.
Press ▭ "Enter" to confirm your setting.

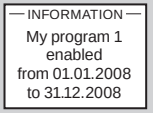


End date:

18 Press ▭ "Edit" to choose an end date.
Press ▭ "Enter" to confirm your setting.



19 The display shows that My program 1 is enabled in the chosen period.



Choose "Enable" under menu item Program settings to get a full list of all recorded programs that can be activated automatically. The list comprises both enabled and disabled programs. The enabled programs have been ticked and the disabled programs can be enabled any time you want.

Note: For solar products, automatically activated programs may result in a quick discharge of the battery due to frequent operation of the products.

Program under Shortcut P1/P2

A program under Shortcut **P1/P2** contains a sequence of operating commands for one or more products. The sequence is activated by pressing shortcut key **P1** or **P2**. You can record up to eight programs, four under each of the shortcut keys. The programs can be set to be executed immediately, with a delay or at a certain time.

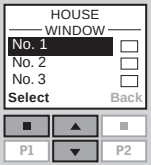
The example shows how to program window No. 1 to open immediately and close again after 1 hour and 30 minutes (delay) by a single pressure on shortcut key **P1**.

1 Press ▭ "Menu".

2 Scroll through the menus:

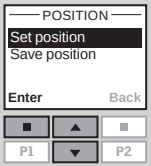
Program settings → Record → Shortcut P1/P2

Note: If the current time and date has not been set already, please do so before choosing "Shortcut P1/P2".



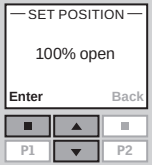
3 Locate the window. The relevant product can be identified by pressing ◉ for a short period of time. This will activate the product briefly.
Press ▭ "Select" to select the product.

4 The display shows the selected product.
- Press ▭ "Enter" to confirm your choice.
- Press ▭ "Edit" to select additional products from the list.

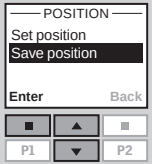


5 Press ▭ to highlight "Set position".
Press ▭ "Enter" to confirm your choice.

6 Press ▭ to set the opening position of the window. 100% corresponds to fully open.
Press ▭ "Enter" to confirm your setting.



7 Press ▭ to highlight "Save position".
Press ▭ "Enter" to confirm your choice.

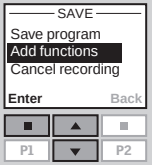


8 The display shows two time setting options.
Press ▭ to highlight "Delay", ie the time that will pass from pressing P1 till the product will be activated.
Press ▭ "Enter" to confirm your choice.

9 Press ▭ to set the relevant delay. First choose minutes. Choose 0 minutes if you want the window to open immediately.
Press ▭ "Enter" to change to hours.

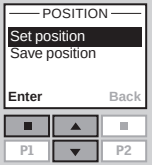
10 Press ▭ to set hours.
Press ▭ "Enter" to confirm your setting.

11 The display shows various options.
Press ▲▼ to highlight "Add functions" to set the closing position and time of the window.
Press ■ "Enter" to confirm your choice.

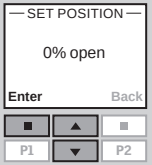


12 The display shows the latest selected product.
Press ■ "Enter" to continue.

13 Press ▲▼ to highlight "Set position".
Press ■ "Enter" to confirm your choice.



14 Press ▲▼ to set the closing position of the window. 0 % corresponds to fully closed.
Press ■ "Enter" to confirm your setting.



15 The display shows two time setting options.
Press ▲▼ to highlight "Delay", ie the time that will pass from pressing P1 till the product will be activated.
Press ■ "Enter" to confirm your choice.

16 Press ▲▼ to set the delay. First choose minutes.
Press ■ "Enter" to change to hours.

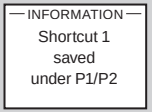
17 Press ▲▼ to set hours.
Press ■ "Enter" to confirm your setting.

18 The display shows various options.

- Press ▲▼ to highlight "Add functions" to add additional operating commands for the window or other products to the program.
  Press ■ "Enter" to return to item 12.
- Press ▲▼ to highlight "Save program" to save the program as it is.
  Press ■ "Enter" to save the program.

19 The display automatically suggests the name "Shortcut 1".
Press ■ "Enter" to save the name.
Follow the instructions in section *Naming* to change this name.

20 The display shows that Shortcut 1 has been saved.



Activating a program under Shortcut P1/P2

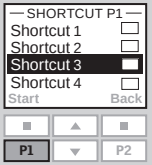
You can activate any one of the personal shortcut programs by pressing the shortcut key **P1** or **P2**. You can still use the various functions of the remote control at the same time as one or more programs have been activated.

Below four shortcut programs have been recorded under shortcut key **P1**. The example shows how to activate the program under Shortcut 3 via shortcut key **P1**.

1 Press P1 three times to activate the program under Shortcut 3.

Note: Max time interval between each key pressure: 2 seconds. Otherwise the shortcut program that happens to be highlighted will be activated.

2 Shortcut 3 is highlighted in the display and the program automatically starts.



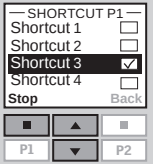
Interrupting a program under Shortcut P1/P2

Icon ▶ indicates that a program has been activated. A shortcut program in progress can be interrupted as follows:

1 Press P1 or P2 to find the shortcut program in progress.

2 The activated shortcut program has been ticked.

Press ▲▼ to highlight the program in question.
Press ■ "Stop" to interrupt the program.



The synergy program Energy Balance is a pre-defined program containing a sequence of operating commands for roller shutters or awning blinds. If the program has been enabled, the sequence is automatically started at the pre-defined times. The times have been fixed so that the sunscreening products will run up or down depending on whether it is summer or winter and day or night.

During the summer time in Southern Europe, the sunscreening products will for instance run down in the morning and up in the evening. In this way, the sun is screened during the time where it induces considerable heat into the building. This means less need for inducing energy for cooling of the building.

Control parameters

The control of the sunscreening products is automatically changed so it matches the summer and the winter period. The program will automatically be disabled in the transition period between summer and winter where automatic operation of the sunscreening products does not contribute substantially to improving the energy balance. The transition period is 0 to 8 weeks depending on the geographical location. In addition, the control automatically discerns between weekdays and weekend so that the sunscreening products are not operated before 8 o'clock in the morning at weekends.

Settings

The program can be enabled in two ways:

- Standard setting: Automatic control of the roller shutters alone.
- Customised setting: Automatic control of selected roller shutters and awnings blinds. In addition, the location of the windows in the building (north/south/east/west) is taken into account.

The following examples show how to enable the program Energy Balance, first via Standard setting and then via Customised setting.

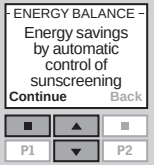
Standard setting

Used for automatic control of the roller shutters.

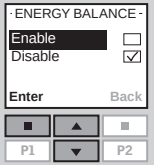
1 Press ▭ "Menu".

2 Scroll through the menus:

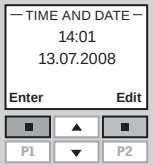
Program settings → Enable → Synergy program



3 Press ▭ "Continue".



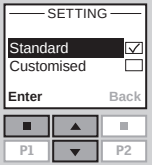
4 Press ▲▼ to highlight "Enable".
Press ▭ "Enter" to confirm your choice.



5 The display shows time and date. Check that the time settings are correct so that the time control of the sunscreening products will be right.

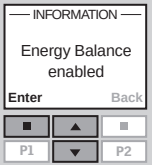
- Press ▭ "Enter" to confirm time and date.
- Press ▭ "Edit" to correct time and date.

6 Press to highlight "Standard".
Press "Enter" to confirm your choice.



7 Press to highlight the city that is geographically closest to the location of the building.
Press "Enter" to confirm your choice.

8 The display shows that the program Energy Balance has now been enabled.



Customised setting

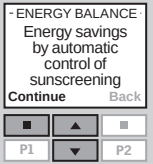
Used for automatic control of selected roller shutters and awning blinds. In addition, the location of the windows in the building (north/south/east/west) is taken into account.

If the program has been enabled via Standard setting already, you must first disable this setting and then follow the example below.

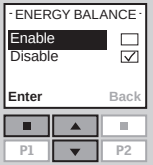
1 Press "Menu".

2 Scroll through the menus:

Program settings → Enable → Synergy program

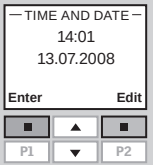


3 Press "Continue".

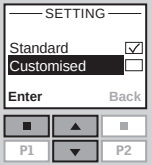


4 Press to highlight "Enable".
Press "Enter" to confirm your choice.

5 The display shows time and date. Check that the time settings are correct so that the time control of the sunscreening products will be right.
- Press "Enter" to confirm time and date.
- Press "Edit" to correct time and date.

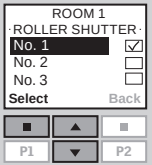


6 Press ▲▼ to highlight "Customised".
Press ■ "Enter" to confirm your choice.

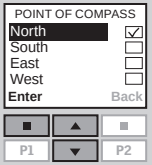


7 Press ▲▼ to highlight the city that is geographically closest to the location of the building.
Press ■ "Enter" to confirm your choice.

8 The display shows a list of all roller shutters and awning blinds connected. The relevant product can be identified by pressing ◎ for a short period of time. This will activate the product briefly.
Press ▲▼ to highlight the product to be controlled automatically.
Press ■ "Select".



9 Press ▲▼ to highlight the point of the compass for the window on which the roller shutter or awning blind in question has been installed.
Press ■ "Enter" to confirm your choice.

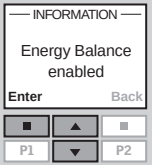


10 The display shows a list of the products that will be controlled automatically.

- Press ■ "Edit" to return to item 8. Repeat items 8-10 to change or add products.
- Press ■ "Enter" when the list of the products to be controlled via the program is complete.

11 The display shows that the selected products have been saved.
Press ■ "Continue" to end the setting of the program.

12 The display shows that the program Energy Balance has been enabled.



If you later want to add roller shutters or awning blinds to the program Energy Balance, you must first disable the program via the menus:

Program settings → Enable → Synergy program

Then the program must be customised via Customised setting, see item 1.

Note: Products already selected and their settings are maintained.

Disabling rain sensor

If the rain sensor gets wet, the window operator automatically closes the window. However, the ventilation flap remains open.

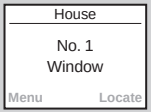
If you want to open the window even if it is raining, you can disable the rain sensor for up to 60 minutes. When the rain sensor is disabled, the window can open up to 50%.

The example shows how window No. 1 is opened even if it is raining.

Note: If the window has not been set to close automatically, it will not close until after 60 minutes. The window will close after these 60 minutes if the rain sensor is wet or when it gets wet.

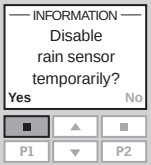
1 Locate the window.

Press to open the window.



2 The display shows that the operation can not be executed because the window operation has been limited by the rain sensor. You are asked whether the rain sensor is to be disabled temporarily.

Press "Yes" to disable the rain sensor temporarily.



The rain sensor will now be disabled for 60 minutes. When the window is closed, the rain sensor will be enabled again.

If the window is set to close automatically, the rain sensor will only be disabled until the window is closed automatically.

Note: It is recommended to set the window to close automatically to reduce the risk of water ingress.

Time and date

Time and date must be set manually the first time the remote control is to be used. The time and date format can be set in item 4 by choosing "Set format".

The example shows how to set the time. The date is set correspondingly by choosing "Date" in item 3.

1 Press ▭ "Menu".

2 Scroll through the menus:

User settings → Time and date

3 Press ▲▼ to highlight "Time".
Press ▭ "Enter" to confirm your choice.

4 Press ▲▼ to highlight "Set time".
Press ▭ "Enter" to confirm your choice.

5 Press ▲▼ to set minutes.
Press ▭ "Enter" to change to hours.

6 Press ▲▼ to set hours.
Press ▭ "Enter" to confirm your settings.

Time is shown automatically when the remote control is in sleep mode. See section *Display*.

Time is automatically switched from summer time to winter time and vice versa (European time).

Keypad lock

The keypad can be locked so that products cannot be operated without unlocking the keypad. The stop key can still be used.

1 Press ▭ "Menu".

2 Scroll through the menus:

User settings → Keypad lock

3 Press ▲▼ to highlight "Enable".
Press ▭ "Enter" to confirm your choice.

The keypad lock is immediately activated.

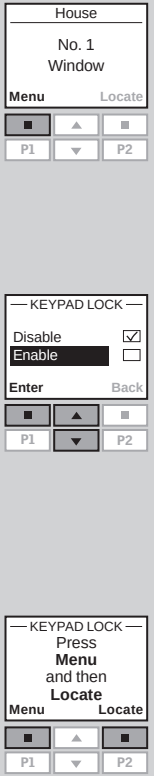
Using the keypad even if it is locked:

Message as shown.

Press ▭ "Menu". Press ▭ "Locate".
The keypad has temporarily been unlocked.

The keypad will automatically be locked again 20 seconds after it has been used.

Note: The keypad lock can be deactivated by choosing "Disable" in item 3.



Display light

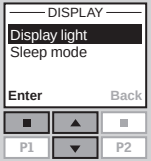
In standard settings, the light in the display is turned on when the keypad is activated and turned off again after 20 seconds. If you do not want any light in the display and you want to prolong the battery lifetime, you can opt out of this.

The example shows how to turn off the light in the display.

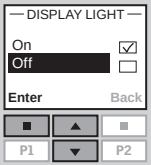
1 Press ▭ "Menu".

2 Scroll through the menus:

User settings → Display



3 Press ▲▼ to highlight "Display light".
Press ▭ "Enter" to confirm your choice.



4 Press ▲▼ to highlight "Off".
Press ▭ "Enter" to confirm your choice.

Note: The light in the display can be turned on by choosing "On" in item 4.

Sleep mode

The life of the batteries can be prolonged by setting the remote control to go into sleep mode. When it has been set to go into sleep mode, the light in the display will be turned off 20 seconds after the latest key pressure. Time is shown.

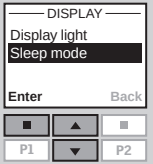
Press any key to activate the remote control again. However, the stop key can be used at any time.

The example shows how to set the remote control to go into sleep mode.

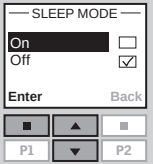
1 Press ▭ "Menu".

2 Scroll through the menus:

User settings → Display



3 Press ▲▼ to highlight "Sleep mode".
Press ▭ "Enter" to confirm your choice.



4 Press ▲▼ to highlight "On".
Press ▭ "Enter" to confirm your choice.

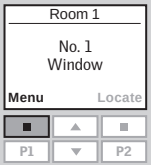
5 When the remote control is in sleep mode, time is shown.

Note: Choose "Off" in item 4 if you do not want the remote control to go into sleep mode.

You can rearrange the order of the individual products, Groups, Rooms and Zones displayed.

In the example, three Rooms have been created. It shows how to rearrange the order of the roller shutters in Room 2.

1 Press "Menu".

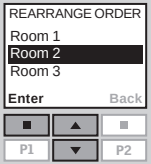


2 Scroll through the menus:

House settings → Rearrange order → Product

3 Displays a list of the Rooms created containing the products in question.

Press to highlight the Room in which the order of the individual products is to be rearranged.
Press "Enter" to confirm your choice.

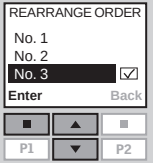


4 Displays a list of the product types in Room 2.

Press to highlight the product type where the order of the individual products is to be rearranged.
Press "Enter" to confirm your choice.

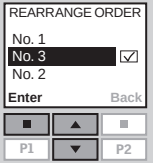
5 Displays a list of the individual products of the chosen product type. The individual products can be identified by pressing for a short period of time. This will activate the product briefly.

Press to highlight the product in question.
Press "Enter" to confirm your choice.



6 The list of the individual products of the chosen product type is still displayed.

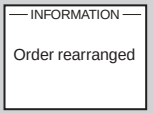
Press to move the chosen product.
Press "Enter" to confirm the rearranged order.



7 The display asks whether the order of more products is to be rearranged or whether the changes made until now are to be saved.

- Press "More" to rearrange the order of more products. You will return to the list in item 5. Repeat items 5-7 until the required order of products has been obtained.
- Press "Save" to save the rearranged product order.

8 The display shows that the order has been rearranged.



Access code

You can choose a personal access code to protect your personal settings, for instance against unintentional deletion of programs. The access code must consist of four digits from 0 to 9.

1 Press "Menu".

2 Scroll through the menus:

User settings → Access code

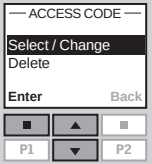
3 Press to highlight "Select/Change".
Press "Enter" to confirm your choice.

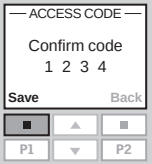
4 Press to choose the first digit.
Press "Enter" to go to the next digit.
Press "Enter" when the last digit has been chosen.

5 Press "Save" to confirm and save the code.

Every time you now choose Menu, you must enter the access code before you can proceed.

Note: The access code can be cancelled by choosing "Delete" in item 3.





Software version

When addressing technical inquiries to VELUX, you will be asked to provide the version number of the software in the remote control. To find this proceed as follows:

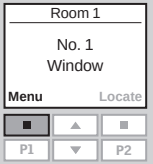
1 Press "Menu".

2 Scroll through the menus:

System settings → Software version

3 The display shows a code, for instance **004**.XXX.XXX.XXX.
The first three digits are the version number.

4 Press "Back" to return to the previous menu.



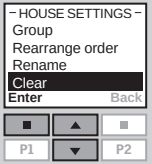
Clearing remote control settings

When clearing the remote control settings, all personal settings for eg Rooms, Zones, Groups and Programs and all personal names are deleted. The products, however, remain registered in the remote control.

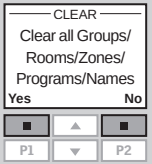
1 Press ▭ "Menu".

2 Select the submenu:

House settings



3 Displays a list of menu items.
Press ▭ to highlight "Clear".
Press ▭ "Enter" to confirm your choice.



4 The display asks whether you want to clear all Groups, Rooms, Zones, Programs and personal names you might have created.

- Press ▭ "Yes" to confirm your choice.
- Press ▭ "No" to cancel your choice.

The remote control settings are cleared.

Registering new products

When a new additional product has been installed, it can be registered in a remote control already in operation. This new product can for instance be a new INTEGRA or Solar roof window, a blind or a roller shutter.

The example shows how to register a new roller shutter in the remote control and place it in Room 1.

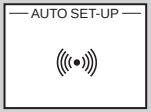
1 Prepare the product for registration.
Disconnect the mains or battery supply for 1 minute and then reconnect it. The product can now be registered in the remote control within the next 10 minutes.

2 Press ▭ "Menu" in the remote control already in operation.

3 Select the submenu:

System settings

4 Press ▭ to highlight "Register product".
Press ▭ "Enter" to confirm your choice.



5 Registration is running. This can take up to two minutes.

6 The display shows that the new product has been registered.

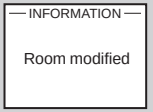
Now the product must be placed.

7a If **no** Rooms have been created, the product is automatically placed in House.
Operation can start.

7b If Rooms **have been** created, the product has to be placed in the appropriate Room.
The display shows a list of new products. The individual products can be identified by pressing ◉ for a short period of time. This will activate the product briefly.
Press ▭ to highlight the product to be placed.
Press ▭ "Enter" to confirm your choice.

8 Displays a list of the Rooms created.
Press ▭ to highlight the Room in which the product is to be placed.
Press ▭ "Enter" to confirm your choice.

9 The display shows that the Room has been modified.
Operation can start.



Where more than one remote control is used, new products can also be operated with these. To do this, register the new products in each remote control by repeating items 2-9 for each of them.

Using additional activation controls

Products and remote control settings can be copied from one remote control to another. Copying depends on the type of activation control and on whether the activation control to be copied to is new or already in operation.

- **Copying to a new remote control**
  How to copy the contents from one remote control to another remote control not yet in operation.
- **Copying to a remote control in operation**
  How to copy the contents from one remote control to another remote control where the two remote controls have not registered the same products.
- **Copying products from other types of activation controls**
  How to copy the products from another type of activation control to the remote control.
- **Copying products to other types of activation controls**
  How to copy the products in the remote control to another type of activation control.

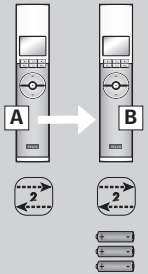
The following examples presuppose the use of VELUX two-way remote controls unless otherwise mentioned. For other io-homecontrol® compatible activation controls, please refer to the instructions provided with the product in question.

Note: When copying between two VELUX two-way remote controls, all registered products and personal settings are copied, apart from personal programs that cannot be copied. When copying from VELUX two-way remote controls to other types of activation controls, only the registered products will be copied, not the remaining settings such as personal names, Rooms, Groups etc.

Copying to a new remote control

You can copy the contents from a remote control already in operation to a new one so that the latter can also operate the products registered.

The example shows how to copy the products and the personal settings from a remote control **A** in operation to a new remote control **B** not yet in operation.



Step 1: Prepare remote control A for copying

1 Press ▭ "Menu".

2 Select the submenu:

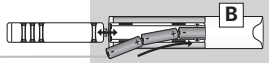
System settings

3 Press ▭ to highlight "Copy system".
Press ▭ "Enter" to confirm your choice.

Step 2 must now be completed within the next two minutes.

Step 2: Register products in remote control B

4 Insert the three batteries supplied (type AA, 1.5 volt) into the remote control as shown.



5 Choose language:
Press ▭ "Enter".
The language chosen in remote control **A** is automatically chosen for remote control **B**.

6 Press ▭ "Register" to start registration of each product.
Please disregard the information in the display.

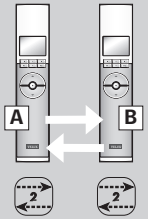
The display now indicates that copying is in progress.

Remote control **B** can now operate the same products as remote control **A**.

Copying to a remote control in operation

If you have two remote controls with different products registered in them, you can copy the contents from one to the other. Then all products can be operated with both remote controls.

The example shows how to copy the products from remote control **A** to remote control **B** and at the same time maintain the settings and the programs of both remote controls.



Step 1: Change security key in remote controls A and B

Change the security key in both remote controls so that they have the same security key, see section *Security key*.

Step 2: Register the products in remote control A

Register all products in remote control **A** by choosing:

Menu → System settings → Register product

If in doubt, see section *Registering new products*.

Remote control **A** can now operate both the products from remote control **B** and the products it could already operate.

Step 3: Register the products in remote control B

Register all products in remote control **B** by choosing:

Menu → System settings → Register product

Remote control **B** can now also operate both the products from remote control **A** and the products it could already operate.

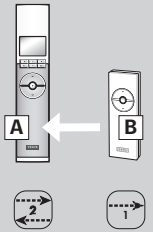
After this both remote controls can operate all products.

Note: With the shown procedure, only the products are copied from remote control **A** to remote control **B** and vice versa. If you want an exact copy of remote control **A** with all personal settings such as Names, Rooms and Groups, you must proceed differently after step 2. First reset remote control **B**, see section *Resetting the remote control*. Then copy from remote control **A** as described in section *Copying to a new remote control*.

Copying products from other types of activation controls

The remote control can also operate products registered in another type of io-homecontrol® activation control if they are copied to the remote control.

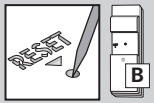
The example shows how to copy products from a VELUX one-way remote control **B** to a VELUX two-way remote control **A**.



Step 1: Prepare activation control B for copying

1 Prepare the products in activation control **B** for registration by pressing the RESET button on the back with a pointed object for at least 5 seconds.

The products must now be registered in remote control **A** within the next 10 minutes.



Step 2: Register products in remote control A

2 Press ▭ "Menu".

3 Select the submenu:

System settings

4 Press ▭ to highlight "Register product".
Press ▭ "Enter" to confirm your choice.

5 Registration is running. This can take up to two minutes.

6 The display shows that the new product(s) has/have been registered.

Now the product(s) must be placed. Please refer to the instructions in section *Registering new products*, item 7a and onwards.

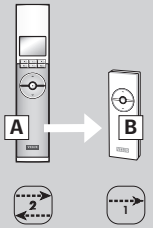
Note: If remote control **A** is not yet in operation, execute the items in section *Initial set-up* instead.

Copying products to other types of activation controls

You can copy one or more products registered in the remote control to another type of io-homecontrol® activation control. This other type of activation control can thus operate both its own and the copied products.

The example shows how to copy a roller shutter from a VELUX two-way remote control **A** to a VELUX one-way remote control **B** so that the latter can operate both the roller shutter and the roller shutters it could already operate.

Note: A VELUX one-way remote control can operate products of the same type only, in this case roller shutters.

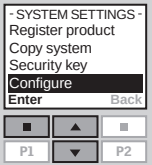


Step 1: Prepare remote control A for copying

1 Press ▭ "Menu".

2 Select the submenu:

System settings



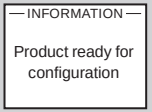
3 Press ▲▼ to highlight "Configure".
Press ▭ "Enter" to confirm your choice.

4 Press ▭ "Enter" to continue selecting the product to be copied to another type of activation control (B).

5 Locate the product. The individual products can be identified by pressing ◉ for a short period of time. This will activate the product briefly.

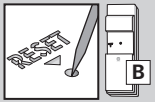
6 The display shows the relevant product.
Press ▭ "Enter" to confirm your choice.

7 The display shows that the product is ready to be registered in the activation control (B).
Products can be registered in the remote control for up to 10 minutes after they have been prepared for registration. They are prepared by disconnecting the mains or battery supply for 1 minute and then reconnecting it.



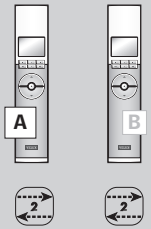
Step 2: Register products in activation control B

8 Press the RESET button on the back briefly (for maximum 5 seconds) to register the new product. The product selected can now be operated with activation control **B**.



Each remote control and each product have a security key. To allow for communication between remote control and products, they must have the same security key. This also ensures that external activation controls cannot communicate with the products and thus operate the products unintentionally.

The example shows how to change the security key in remote control **A** and in the products registered in **A** (step 1). If you have more than one remote control, the new security key must also be transferred to these (step 2).



Step 1: Change security key in remote control A

1 Press ▭ "Menu".

2 Scroll through the menus:

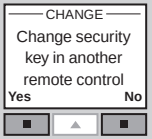
System settings → Security key

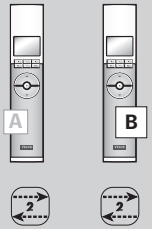
3 Press ▭ to highlight "Change".
Press ▭ "Enter" to confirm your choice.

The display now indicates that the security key has been changed.

4 The display asks whether the security key of other remote controls is to be changed.

- Press ▭ "No" to finish if this is the only remote control being changed.
- Press ▭ "Yes" if there are other remote controls. Execute step 2 for these.





Step 2: Change security key in remote control B (and other)

1 Press ▭ "Menu".

2 Scroll through the menus:

System settings → Security key

3 Press ▭ to highlight "Receive".
Press ▭ "Enter" to confirm your choice.

The display indicates that the security key is being transferred from remote control **A** to remote control **B**.

Electrically operated and Solar roof windows can be reset to their initial factory settings and then be prepared for registration.

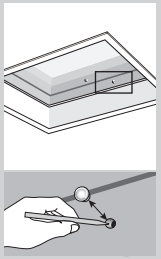
Note: A reset removes the connection between the window with its electrical products and all remote controls. Therefore the products cannot be operated until they have been registered in a remote control again. To reinstate the connection between product and remote control after reset, please refer to the instructions in section *Initial set-up*.

Depending on the window type there are various ways of resetting.

Centre-pivot roof windows
GGL/GGU INTEGRA, GGL/GGU Solar or GGL/GGU with KMX 100 or KSX 100
Open the window manually. (If the window is open already, it must be closed with the remote control before it is opened manually). Press the test button on the window operator for at least 10 seconds. The window operator and other electrical products of the window will briefly run back and forth. Frame lights will flash briefly.

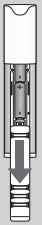
Top-hung roof windows
GHL, GHU, GPL, GPU and VKU with KMX 200
Open the window manually. (If the window is open already, it must be closed with the remote control before it is opened manually). Remove the cover of the window operator. Press the test button on the window operator for at least 10 seconds. The window operator and other electrical products of the window will briefly run back and forth. Frame lights will flash briefly. Replace the cover of the window operator again.

Flat roof window CVP
Carefully remove the cover cap on the kerb. Press the test button on the window operator behind the cover cap for at least 10 seconds. The window operator and other electrical products of the window will briefly run back and forth. Replace the cover cap.



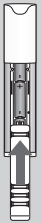
Resetting the remote control

The remote control can be reset to its initial factory settings if you want to delete all registered products and start afresh.

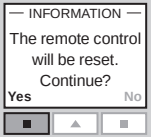


1 Slide off the battery cover as shown.

2 Press the button on the right side of the remote control with a pointed object for at least 5 seconds.



3 Replace the battery cover.



4 Press ▭ "Yes" to confirm that you want to reset the remote control.

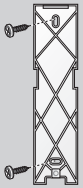
The remote control has now been reset. To reinstate the connection between remote control and products, please refer to the instructions in section *Initial set-up*.

Fitting of holder for remote control

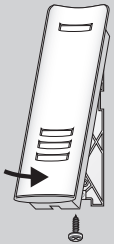
The remote control is provided with a wall-mounted holder, which can be fitted anywhere in your home.

Note: Check that the remote control can operate the relevant products from the proposed position before it is fastened to the holder.

1 Fit the back section to the wall with the two screws supplied.



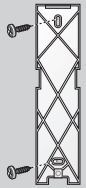
2 Hook the front section onto the back section at the top, click it into place at the bottom and fix it with a screw.



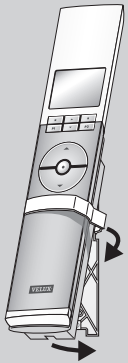
3 Place the remote control in the holder. It is secured by means of built-in magnets.

If required, the remote control can be fastened with screws to the holder.

1 Fit the back section to the wall with the two screws supplied.



2 Place the remote control in the front section. Clip the white strap around the assembled unit. Hook the assembled unit to the back section at the top. Ensure that the strap fits into the openings in the sides of the back section. Lock the unit into place at the bottom.



3 Fix the unit with screw at the bottom.

Fitting of rain sensor to electrical products

If the rain sensor has not already been fitted, fit it as shown, see instructions for rain sensor. If the rain sensor gets wet, the window operator will automatically close the window.

The mains supply must be switched off when fitting the rain sensor!

Fitting to top cover of roof window GGL or GGU

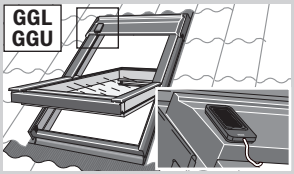
Adhere the rain sensor to a dry, clean surface. Lead cable into the window as shown and connect it to the connection box on the motor (**A**).

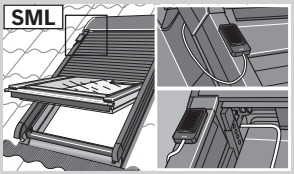
Fitting to roller shutter SML or awning blind MML

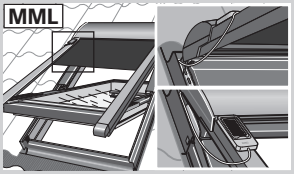
Adhere the rain sensor to a dry, clean surface. Lead cable under roller shutter/awning blind so that the window can be opened when the roller shutter/awning blind is rolled down. Then lead the cable into the window as shown and connect it to the connection box on the motor (**A**).

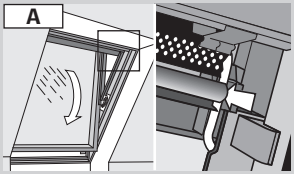
Fitting to flat roof window CVP

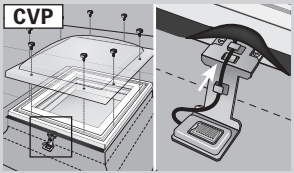
Fit the rain sensor from the outside. Remove the dome by turning the fasteners 90° and put it in a safe place. Fasten the bracket with the rain sensor to the frame bracket. Replace the dome.











Fitting of electrically operated blinds, roller shutters etc

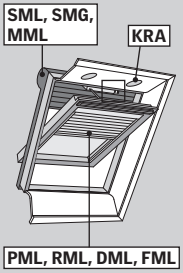
Electrically operated roof windows are prepared for fitting of electrically operated interior and exterior decoration and sunscreening products as well as frame lights.

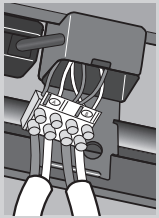
When fitting these products, the mains supply must be switched off.

Product availability may differ in your country. For further information, please refer to appropriate instructions or contact VELUX.

Products

SML/SMG	Electrically operated roller shutter
MML	Electrically operated awning blind
PML	Electrically operated Venetian blind
RML	Electrically operated roller blind
DML	Electrically operated blackout blind
FML	Electrically operated pleated blind
KRA	Frame lights





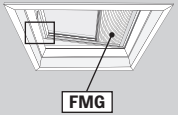
Flat roof window CVP is prepared for fitting of electrically operated interior decoration and sunscreening products.

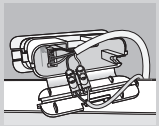
When fitting these products, the mains supply must be switched off.

Product availability may differ in your country. For further information, please refer to appropriate instructions or contact VELUX.

Products

FMG	Electrically operated pleated blind





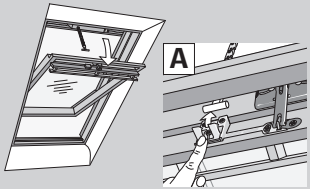
Closing centre-pivot roof windows GGL/GGU INTEGRA, GGL/GGU Solar or GGL/GGU with KMX 100 or KSX 100

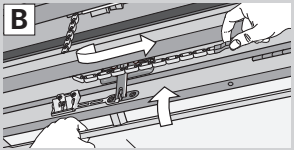
In case of power failure / discharged battery

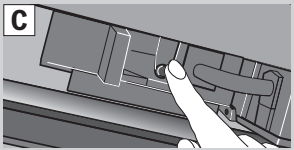
The chain can be disengaged by pressing the release clip on the ventilation flap bracket (**A**). Fold the chain as shown, and close the window (**B**). When the power is reconnected/the battery has been recharged, the chain can be re-engaged by opening the window manually, unfolding the chain and pressing the test button briefly (**C**). Close the window manually.

If the remote control has been mislaid

The chain can be disengaged by pressing the release clip on the ventilation flap bracket (**A**) and run back by pressing the test button on the window operator (**C**). Close the window manually.



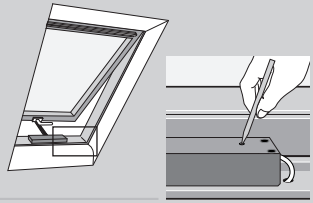




Closing top-hung roof windows GHL, GHU, GPL, GPU and VKU with KMX 200

If the remote control has been mislaid

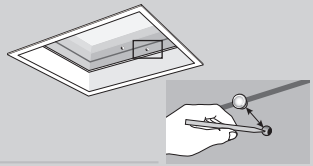
The window can be closed by removing the cover of the window operator and pressing the test button briefly.



Closing flat roof window CVP

If the remote control has been mislaid

The window can be closed by removing the cover cap on the kerb and pressing the test button on the window operator behind the cover cap briefly.



1 **Cleaning the pane**

Do not open the window with the remote control and switch off the mains or battery supply! This applies to all window types.

Centre-pivot and top-hung roof windows (GGL/GGU/GPL/GPU/GHL/GHU)

Open the window manually (**A**). Rotate the sash fully and secure it in position by sliding the barrel bolt(s) into the bushing(s) at the bottom of the frame (**B**). This safety feature leaves both hands free for cleaning (**C**).

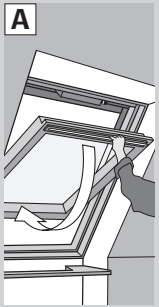
Flat roof window (CVP)

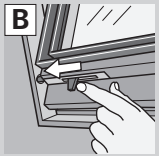
The window must be closed during cleaning. Remove the dome by turning the fasteners 90° and put it in a safe place. Clean dome and exterior pane from the outside.

Clean the pane with a soft, clean, lint-free cloth/chamois leather/non-abrasive sponge or a clean, non-metal window squeegee. Clean water will normally be sufficient for cleaning the pane. Ordinary, non-abrasive household cleaners can also be used. Soft water is best for cleaning panes. Therefore, in hard-water areas add a small amount of detergent to soften the water or wipe off all excess water after cleaning.

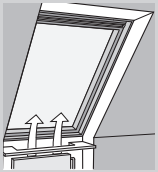
Warning

- Avoid contact from silicone with the pane.
- Do not use any cleaning products containing abrasive particles.
- Do not use chemical products for cleaning the pane or the dome. This includes common chemical products such as methylated spirits.
- Avoid contact with the pane from all sharp or abrasive objects including jewellery.
- Never attempt to clean off dirt on the pane without first applying water.
- If any works are taking place in the vicinity of the pane, protect the pane with a clean plastic sheet to prevent any splashes or staining from aggressive and abrasive compounds.



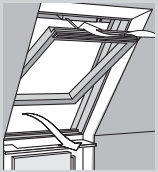


Switch off the mains or battery supply before proceeding with items 3, 4, 6 and 7!



2 Minimising condensation

Particularly in rooms with high levels of humidity, condensation can form on the inner pane of the window. This can be minimised by fitting a radiator directly below the window and by airing the room frequently.



3 Cleaning the air filter

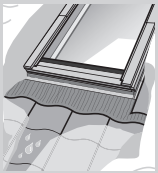
The air filter can be removed and washed with ordinary household cleaners. Fully rotate and secure the window in cleaning position, then remove the filter from the filter rail. (New filters are available from VELUX).

4 Cleaning the flashing

Leaves and other debris should be removed from the flashing around the window once per year to allow rainwater to flow freely.

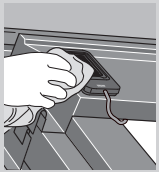
5 Snow and ice

Remove snow and ice to allow melt water to drain off from and around the window.



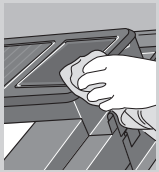
6 Cleaning the rain sensor

Dirt on the rain sensor may cause operating problems. Therefore, it is recommended to clean the rain sensor with a soft wet cloth once or twice a year or when needed.



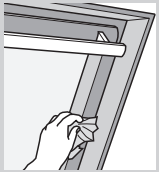
7 Cleaning the solar cell panel

In case of accumulation of dirt on the solar cell panel, this should be cleaned with water and ordinary household cleaners.



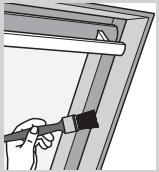
8 Maintenance of timber (GGL)

The timber has received basic treatment and a finished coating at the factory and can be cleaned with ordinary household cleaners. It must receive further treatment at least every four years and whenever required. Windows exposed to strong heat, strong sunlight and/or high levels of humidity (eg in kitchens or bathrooms) must however receive treatment at least every two years. Surface maintenance: Remove surface treatment (varnish or paint). Ensure surface is clean and dry and apply primer to the timber. When dry, apply a coat of waterbased acrylic varnish/paint (always follow the manufacturer's directions). Apply the same method to the affected areas if the varnish/paint is damaged.



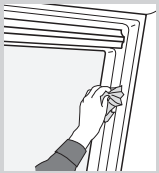
9 Maintenance of polyurethane (GGU)

The white polyurethane surface can be cleaned with ordinary household cleaners.



10 Maintenance of PVC (CVP)

The PVC surface can be cleaned with mild solutions of household cleaners; however, avoid cleaners containing household ammonia.



Display symbols

Batteries must be changed within 2 weeks (type AA, 1.5 volt).	
Automatic closing has been activated for the product in question.	
Automatic closing has been activated for one of the products in the remote control.	
Automatic registration of product(s) is running.	
Operation of a product.	
The product or function requested has been ticked.	
A program has been activated.	
Slats/louvres of a decoration and sunscreening product can be tilted/turned from 0 to 100%.	
A decoration and sunscreening product can be drawn up/down or opened/closed from 0 to 100%.	
A name can be saved, see section *Naming*.	
Deletion of character, see section *Naming*.	
Space character, see section *Naming*.	

Display texts

Battery level low: The batteries in the remote control are running out of power.

Blocked: Unknown object obstructs operation of product. Remove obstruction to obtain normal operation.

Limited by rain sensor: It is raining and the rain sensor has been activated. You can disable the rain sensor temporarily and operate the window.

Manual operation: The window has been opened manually. Close the window manually to allow for electrical operation.

Operational defect: The product has stopped during operation. Check the product.

Power usage high: The power usage of the frame lights is too high. The light bulbs are too strong compared to the specifications or the lights are defective.

Power usage low: The power usage of the frame lights is too low. The light bulbs are either too weak compared to the specifications or one or more bulbs are defective. The lights might be defective.

Reduced power supply: The power supply to the product has been reduced. Limited operation.

Ventilation: Ventilation via ventilation flap without opening the window.

Glossary

Adjustment: VELUX electrical decoration and sunscreening products are not adjusted to the window size on delivery. When operated the first time, they will therefore run from bottom to top or from top to bottom of the window without interruption. After adjustment the product is ready for use.

Configuration: See Preparation for registration.

Memory: The following functions occupy the memory of the remote control: Room, Group, Rename and Programs. Use of these functions will reduce the total memory.

One-way activation control: Product based on one-way RF (radio frquency) communication and marked with the symbol . This symbol can be found under the battery cover.

Preparation for registration: An io-homecontrol® compatible product must be registered in an activation control before it can be operated. When a new product is connected to mains or battery supply, it will search for an activation control for 10 minutes.

Product: An io-homecontrol® compatible product, which can be operated with the remote control, such as an INTEGRA roof window, a roller shutter, frame lights etc.

Registration: A product is registered in an activation control when the security key of the activation control is assigned to the product.

Repeater: A unit increasing the range of the remote control.

Two-way activation control: Product based on two-way RF (radio frequency) communication and marked with the symbol . This symbol can be found under the battery cover.

Declaration of Conformity

In accordance with the Council Directive 2006/95/EEC

We herewith declare that

- VELUX roof windows GGL INTEGRA® (----21) and GGU INTEGRA® (----21),
- VELUX roof windows GGL Solar (----30) and GGU Solar (----30),
- VELUX flat roof window CVP (3MX A02),
- VELUX electrical conversion kit KMX 100 (3MG A01, 3UC A02, 3LA A01 and 3LR A01) for VELUX roof windows GGL and GGU,
- VELUX electrical conversion kit KMX 200 (3MX A01, 3LA A01 and 3LR A01) for VELUX roof windows GHL, GHU, GPL, GPU and VKU,
- VELUX solar window operator KSX 100 (3SM B01, 3SD B01 and 3LR A01) for VELUX roof windows GGL and GGU and
- VELUX remote control KLR 100 (3LR A01)

- are in conformity with the provisions of Machinery Directive 2006/42/EEC, EMC Directive 2004/108/EEC, Low Voltage Directive 2006/95/EEC and R&TTE Directive 1999/5/EEC,
- have been manufactured in accordance with the harmonised standards EN 300220-3, EN 301489-1, EN 301489-3, EN 55014-1, EN 55014-2, EN 55022, EN 55024, EN 50366, EN 60335-1, EN 60335-2-103, EN 61558-1 and EN 61558-2-17.

The above-mentioned VELUX roof windows, VELUX flat roof window, VELUX electrical conversion kits and VELUX solar window operator - when the kit or the solar window operator is installed on a VELUX roof window - are to be considered as machines, which are not to be put into service until they have been installed according to instructions and requirements.
The total system then complies with the essential requirements of the Council Directives 2006/42/EEC, 2004/108/EEC, 2006/95/EEC and 1999/5/EEC.

VELUX A/S: .....
(Klaus Lorentzen, Product Management)

Ådalsvej 99, DK-2970 Hørsholm 10/12-2007

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